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1. A14-001: Gear Coatings for Loss of Lubrication Application

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate gear coatings in order to increase the endurance of helicopter transmissions operating after loss of primary oil flow. The objective is to develop low cost, low friction, highly reliable coating that is capable of allowing a transmission to run for 45 minutes in a loss of lubrication condition. DESCRIPTION: Under normal rotorcraft operations, flowing lubrican ...

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2. A14-002: Innovative Seat Restraint Systems for Troops in Rotorcraft

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate innovative and advanced concepts for seat restraint systems, which will be intuitively easier and faster to use under any adverse conditions and can be readily integrated into existing forward, aft, and side-facing troop seats in military rotorcraft while providing the necessary protection requirements to prevent injuries during crash. DESCRIPTION: Unlike a pi ...

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3. A14-003: Paint Additive for Early Detection of Corrosion

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate a paint additive with associated non-destructive interrogation device to detect the very early/insipient formation of corrosion. DESCRIPTION: Corrosion is a chronic problem for all of DoD and significant funding is spent annually detecting, repairing and in some cases replacing aircraft components. Inspection for corrosion is currently accomplished visually by ...

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4. A14-004: Electrostatic Methods for Improved Separation of Fine Sand/Dust Particles in Turbine Engines

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate novel, electrostatic methods for improved fine sand/dust particle separation in turbine engines. DESCRIPTION: Sand/Dust particles have significant detrimental effects on turbine engine performance and durability causing impact on mission effectiveness and sustainment costs. Fine sand particles melt in the combustor and solidify (turn to glass) on turbine vane ...

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5. A14-005: Electronic Health Monitoring System Power Source

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Contractor shall develop a power source system for electronic health monitoring systems capable of providing a fixed voltage (between 1.5 and 3.3 volts) at 100 microamps for 20 years over the industrial temperature range. DESCRIPTION: Contractor shall develop an electronic system health monitoring power source to meet the following requirements: (1) Conventional battery technology ...

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6. A14-006: Ultra Low Power Electronic Health Monitoring System

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Research and develop an electronic health monitoring system with ultra-low power sensors and signal processing chain(s). DESCRIPTION: The purpose of this SBIR is to research and develop ultra-low power sensors and signal processing (analog and digital) chains for electronic health monitoring applications. Current electronic health monitoring systems spend most of their time in an ul ...

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7. A14-007: Ceramic Matrix Composite Materials for Transpiration Cooling

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: To develop and demonstrate ceramic matrix composite materials for missile applications with transpiration cooling. DESCRIPTION: The advantages of external transpiration walls for cooling and drag reduction of hypersonic air vehicles are well known[1,2]. These same advantages have been applied to internal gas turbine combustor walls[3] and should equally apply to airbreathing missile ...

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8. A14-008: Wide Field of View Primary Optic for Semi-Active Laser Sensor

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop, investigate, and validate a novel optical primary optic for a wide field of view semi-active laser spot-tracking missile seeker based on a biologically-inspired compound eye for use in the near-infrared spectrum. Provide effective rejection of solar interference, and allow tracking of a target by a missile in flight without the need for a gimbaled sensor. DESCRIPTION: The ...

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9. A14-009: High Capacity Materials and Advanced Engineering for Thermal Batteries

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Future thermal battery performance demands a substantial increase in potential and energy density over the current state-of-the-art. The objective is to develop high potential and high capacity thermal batteries based on advanced electro-chemistry and engineering technologies pushing the boundaries of the current state-of-the-art. DESCRIPTION: Smaller size and longer mission lifetime ...

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10. A14-010: Fragmentation Data Collection and Analysis for JMEMs Arena Tests

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an innovative, low cost approach to capture fragmentation mass, location, material type from a Joint Munitions Effectiveness Manual (JMEM) arena characterization test. The objective is to reduce cost, man hours and turnaround time of data. DESCRIPTION: AMRDEC is interested in developing techniques to improve the data collection and analysis associated with performing ground- ...

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